

WHAT IS CLAIMED IS:

1. An information processing apparatus which is connected to an ink-jet printing apparatus that prints an image by ejecting ink onto a print medium on the basis of print data, and can exchange data with the ink-jet printing apparatus, comprising:

print data generation means for generating print data for an image to be printed by the ink-jet printing apparatus;

- transfer means for transferring the generated print data to the ink-jet printing apparatus; and

- control means for controlling transfer of the print data by said transfer means in accordance with transfer permission/denial information indicating transfer permission/denial of the print data, and operation information indicating an operation state of the ink-jet printing apparatus, which are sent from the ink-jet printing apparatus.

2. The apparatus according to claim 1, wherein upon detection of transfer denial of the print data based on the transfer permission/denial information, said control means controls said transfer means to wait without transferring the print data, and measures a time for waiting.

3. The apparatus according to claim 2, wherein when said control means controls said transfer means to wait and receives next transfer permission/denial

information that permits transfer of the print data while the time for waiting is not more than a predetermined period of time, said control means controls said transfer means to abort waiting, and to
5 transfer the print data to the ink-jet printing apparatus.

4. The apparatus according to claim 2, wherein when said control means controls said transfer means to wait and the time for waiting exceeds a predetermined period
10 of time, said control means checks an operation state of the ink-jet printing apparatus on the basis of the operation information, and when the operation state indicates a predetermined operation state, said control means controls said transfer means to continue to wait.

15 5. The apparatus according to claim 4, wherein the predetermined operation state includes one of states in which the ink-jet printing apparatus is making a recovery operation, is waiting for fixing of an ink, and is in a recoverable error state.

20 6. The apparatus according to claim 2, wherein when said control means controls said transfer means to wait and the time for waiting exceeds a predetermined period of time, said control means checks an operation state of the ink-jet printing apparatus on the basis of the
25 operation information, and when the operation state indicates an unrecoverable error state, said control

means aborts waiting and informs an abnormality of the ink-jet printing apparatus.

7. The apparatus according to claim 1, wherein upon detection of transfer permission of the print data
5 based on the transfer permission/denial information, said control means controls said transfer means to transfer predetermined data of non-transferred print data to the ink-jet printing apparatus.

8. The apparatus according to claim 2, wherein when
10 said control means controls said transfer means to wait and the time for waiting exceeds a predetermined period of time, said control means checks an operation state of the ink-jet printing apparatus on the basis of the operation information, and when the operation state
15 indicates a predetermined operation state, said control means controls to reset the time for waiting which is being measured.

9. The apparatus according to claim 8, wherein the predetermined operation state includes one of states in
20 which the ink-jet printing apparatus is making a recovery operation, is waiting for fixing of an ink, and is in a recoverable error state.

10. The apparatus according to claim 2, wherein when
25 said control means controls said transfer means to wait and the time for waiting exceeds a predetermined period of time, said control means aborts waiting, and informs an abnormality of the ink-jet printing apparatus.

11. A method of controlling an information processing apparatus which is connected to an ink-jet printing apparatus that prints an image by ejecting ink onto a print medium on the basis of print data, and can
5 exchange data with the ink-jet printing apparatus, comprising:

a print data generation step of generating print data for an image to be printed by the ink-jet printing apparatus;

10 a transfer step of transferring the generated print data to the ink-jet printing apparatus; and

a control step of controlling transfer of the print data in the transfer step in accordance with transfer permission/denial information indicating
15 transfer permission/denial of the print data, and operation information indicating an operation state of the ink-jet printing apparatus, which are sent from the ink-jet printing apparatus.

12. An ink-jet printing apparatus connected to an
20 information processing apparatus, comprising:

transmission means for transmitting, to the information processing apparatus, transfer permission/denial information indicating transfer permission/denial of print data; and

25 printing means for printing an image by ejecting ink onto a print medium on the basis of the print data received from the information processing apparatus.

13. An ink-jet print system, which comprises an ink-jet printing apparatus that prints an image by ejecting ink onto a print medium on the basis of print data, and an information processing apparatus which is
5 connected to the ink-jet printing apparatus and can exchange data with the ink-jet printing apparatus,

said information processing apparatus comprising:
print data generation means for generating print data for an image to be printed by the ink-jet printing
10 apparatus;

transfer means for transferring the generated print data to the ink-jet printing apparatus; and

control means for controlling transfer of the print data by said transfer means in accordance with
15 transfer permission/denial information indicating transfer permission/denial of the print data, and operation information indicating an operation state of the ink-jet printing apparatus, which are sent from the ink-jet printing apparatus, and

20 said ink-jet printing apparatus comprising:

transmission means for transmitting, to the information processing apparatus, transfer permission/denial information indicating transfer permission/denial of the print data; and

25 printing means for printing an image by ejecting ink onto a print medium on the basis of the print data received from the information processing apparatus.

14. The system according to claim 13, wherein upon detection of transfer denial of the print data based on the transfer permission/denial information, said control means controls said transfer means to wait
5 without transferring the print data, and measures a time for waiting.

15. The system according to claim 14, wherein when said control means controls said transfer means to wait and receives next transfer permission/denial
10 information that permits transfer of the print data while the time for waiting is not more than a predetermined period of time, said control means controls said transfer means to abort waiting, and to transfer the print data to the ink-jet printing
15 apparatus.

16. The system according to claim 14, wherein when said control means controls said transfer means to wait and the time for waiting exceeds a predetermined period of time, said control means checks an operation state
20 of the ink-jet printing apparatus on the basis of the operation information, and when the operation state indicates a predetermined operation state, said control means controls said transfer means to continue to wait.

17. The system according to claim 16, wherein the
25 predetermined operation state includes one of states in which the ink-jet printing apparatus is making a

recovery operation, is waiting for fixing of an ink,
and is in a recoverable error state.